

CLAIMS

1. A rotating electric machine comprising:
 - a stator provided with a plurality of windings;
 - a rotor core rotatably supported on a rotary shaft inside said stator; and
 - a plurality of magnets disposed in slots formed in said rotor core,wherein a circumferential angle occupied by those ones of said plurality of magnets constituting one magnetic pole is in the range of 150 to 165 degrees in terms of an electrical angle.
2. A rotating electric machine comprising:
 - a stator provided with a plurality of windings;
 - a rotor core rotatably fixed to a rotary shaft inside said stator; and
 - a plurality of magnets disposed in slots formed in said rotor core,wherein said plurality of magnets are arranged such that, among those ones of said plurality of magnets constituting one magnetic pole, the magnet arranged on the magnetic pole end side is oriented to incline toward a magnetic pole center position.
3. A rotating electric machine according to Claim 2, wherein, among those ones of said plurality of magnets constituting one magnetic pole, the magnet arranged on the magnetic pole end side is oriented to incline toward the

magnetic pole center position such that an angle formed between said magnet and a line tangential to a point at which a straight line passing both the center of said rotary shaft and the center of said magnet crosses an outer circumferential surface of said rotor core is in the range of 2 to 6 degrees.

4. A rotating electric machine according to Claim 2 or 3, wherein a circular arc passing the centers of the magnets among those ones of said plurality of magnets constituting one magnetic pole, which are arranged on the magnetic pole end sides, has a smaller diameter than a circular arc passing the center of the magnet thereamong arranged on the magnetic pole center side.

5. A rotating electric machine according to Claim 1, wherein said slots are shaped such that slits are formed between adjacent two of said plurality of magnets.

6. A rotating electric machine according to Claim 2, wherein said slots are shaped such that slits are formed between adjacent two of said plurality of magnets.

7. A rotating electric machine according to Claim 5, wherein a magnet fixing material is sealed in said slits.

8. A rotating electric machine according to Claim 6, wherein a magnet fixing material is sealed in said slits.

9. A rotating electric machine according to Claim 1,
wherein said magnet is in the form of a simple flat plate.

10. A rotating electric machine according to Claim 2,
wherein said magnet is in the form of a simple flat plate.

11. A rotating electric machine according to Claim 3,
wherein said magnet is in the form of a simple flat plate.